(12) UK Patent Application (19) GB (11) 2 203 767 (13) A

(43) Application published 26 Oct 1988

(21) Application No 8708697

(22) Date of filing 10 Apr 1987

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(51) INT CL⁴
E04H 12/16

(52) Domestic classification (Edition J):
E1D 1079 2107 427 533 541 905 CB F185
E1G 712 LK
U1S 1696 2281 E1D E1G

(56) Documents cited
GB A 2078814 GB 1105133 WO 86/02689

(58) Field of search
E1D
E1G
Selected US specifications from IPC sub-class
E04H

(54) Sectional post of short sections anchored together and to the ground by an internal tensioning means

(57) A support post, e.g. sign post is made by joining sections together. The sections 12 are held together and tensioned by a rope or wire 10, running through the centre of the sections, and anchored to the ground using a tube and a steel rod concreted into the ground.

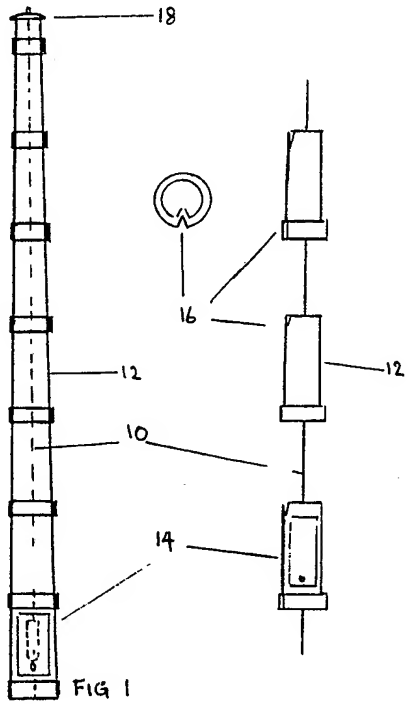

FIG 1

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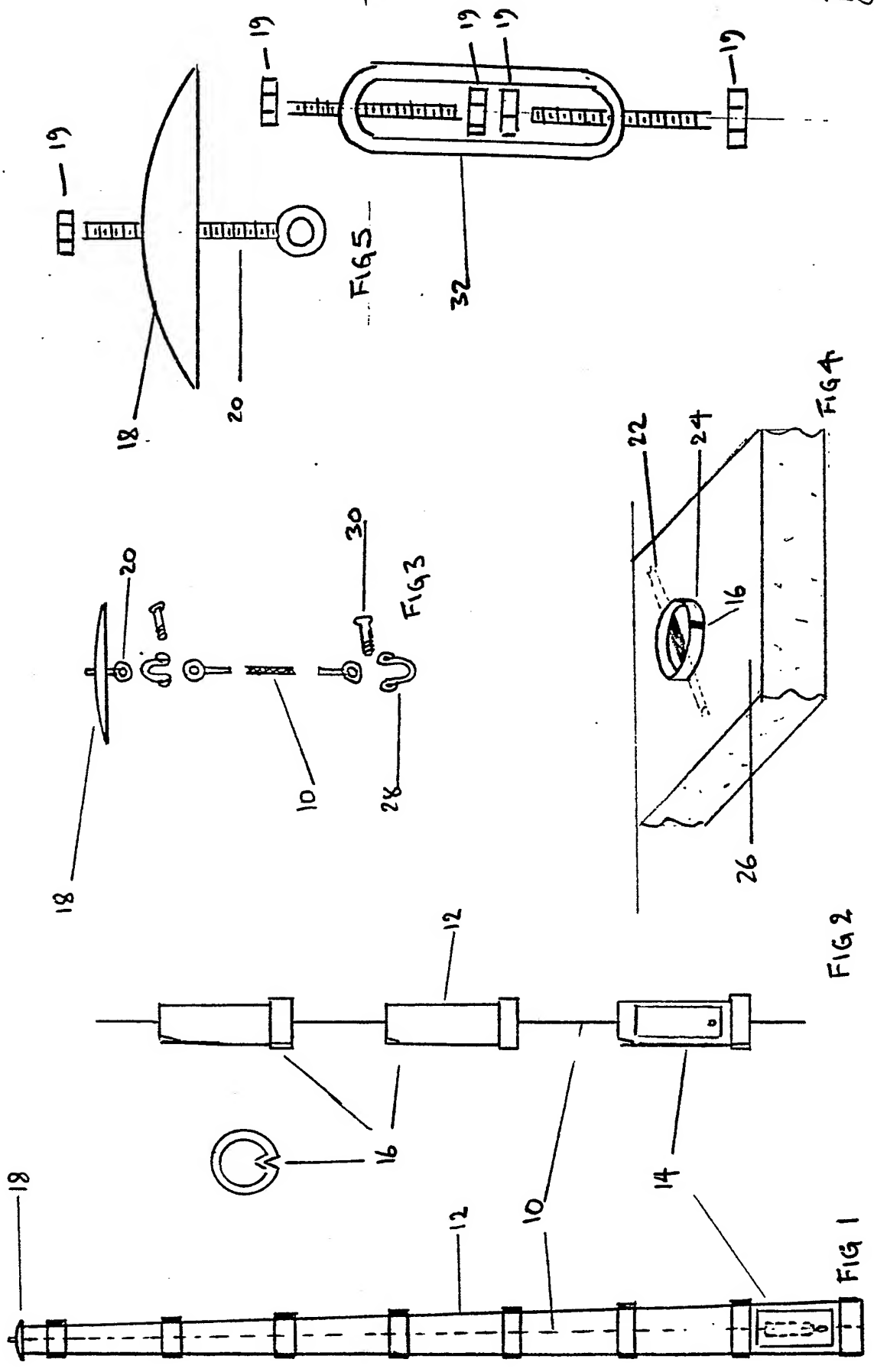
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SUPPORT POST

This invention relates to a support post.

Support posts which carry road signs, lamps, and other information, are of a solid, or tubular construction as a single length, or two piece type, (as in the case of a lamp post).

Each type of post is solidly fixed into the ground.

Support posts being firm however, present a problem when hit by a vehicle, both to the occupants, and to the authority having to replace these posts.

According to the present invention, there is provided a support post, comprising the required number of sections depending on the type and height of post. Each section is attached to the next, to form a complete length requirement, and each has a means of interlocking, to prevent rotation.

Through the centre of the assembly, a rope or wire is threaded.

At the bottom end of the support post is a means of securing the threaded rope or wire to the ground at the top of the support post a further means of securing the threaded rope or wire is provided depending on the type of post, a method of tightening and tensioning the rope or wire is provided.

A specific embodiment of the invention will now be described by way of example with reference to the accompanying drawing in which:-

Figure 1, shows in perspective, the fully assembled post fixed to the ground.

Figure 2, illustrates the sections.

Figure 3, illustrates the wire or rope attachments.

Figure 4, shows a requirement for ground attachment.

Figure 5, illustrates the wire or rope tightening and tensioning methods.

Referring to the drawing, the support post comprises a number of interlocking tubes or sections 12, held together and secured to the ground by rope or wire 10.

Each section 12, has a method of interlocking 16.

At the bottom end of each section 12, is a collar which allows the adjoining section to fit inside.

Two methods of tightening and tensioning the rope or wire is provided 20 and 32.

In order to provide an adequate means of fixing to the ground, a concrete base 26 is required, the base 26, would have a tube set into

it 24, to the same dimensions as the tubes or sections 12, complete with the interlocking method 16.

Also set into the concrete base 26, will be steel rod 22, which will serve to anchor the shackle and pin 30, to the rope or wire 10, at the lower end.

To secure the rope end or the rope or wire, an eye bolt 20, is fitted through a cap 18, the eye bolt 20, is pulled through the cap 18, by a hex nut 19, thereby tightening the rope or wire, and subsequently the whole assembly.

Where a post is required to support a lamp, section 14 would be fitted, this would enable the alternative tightening piece 32, to be fitted inside the assembly, and any additional electrical components and cables (not shown).

CLAIMS

1. A support post comprising a number of sections each having a collar and interlocking method pulled together with a tightening and tensioning arrangement on a rope or wire threaded through the centre of each section and anchored to the ground.

2. A support post as claimed in claim 1 wherein sections are joined together in sufficient pieces to form a complete post.

3. A support post as claimed in claim 1 or 2 wherein sections are joined together and tightened with a rope or wire running through the cntre of each piece.

4. A support post as claimed in claim 2 or 3 wherein means is provided to tighten and tension a rope or wire running through the centre of sections of the assembly.

5. A support post as claimed in claim 4 for access to the method of tightening and tensioning.

6. A support post as claimed in claim 5 for anchoring the ends of the tightening and tensioning method.

7. A support post substantially as described herein with reference to Figs 1 to 5 of the accompanying drawing.

Published 1988 at The Patent Office, State House, 66/71 High Holborn, London WC1R 4TP. Further copies may be obtained from The Patent Office, Sales Branch, St Mary Cray, Orpington, Kent BR5 3RD. Printed by Multiplex techniques ltd, St Mary Cray, Kent. Con. 1/87.